

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/403,803DATE: 12/18/95  
TIME: 15:02:02

INPUT SET: S7876.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

1  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: Israeli, Ron S.  
6 Heston, Warren D.W.  
7 Fair, William R.  
8  
9 (ii) TITLE OF INVENTION: PROSTATE-SPECIFIC MEMBRANE ANTIGEN  
10  
11 (iii) NUMBER OF SEQUENCES: 38  
12  
13 (iv) CORRESPONDENCE ADDRESS:  
14 (A) ADDRESSEE: Cooper & Dunham LLP  
15 (B) STREET: 1185 Avenue of the Americas  
16 (C) CITY: New York  
17 (D) STATE: New York  
18 (E) COUNTRY: United States of America  
19 (F) ZIP: 10036  
20  
21 (v) COMPUTER READABLE FORM:  
22 (A) MEDIUM TYPE: Floppy disk  
23 (B) COMPUTER: IBM PS2  
24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25  
26  
27 (vi) CURRENT APPLICATION DATA:  
28 (A) APPLICATION NUMBER: 08/403,803  
29 (B) FILING DATE: MAR-17-1995  
30 (C) CLASSIFICATION:  
31  
32 (viii) ATTORNEY/AGENT INFORMATION:  
33 (A) NAME: White, John P.  
34 (B) REGISTRATION NUMBER: 28,678  
35 (C) REFERENCE/DOCKET NUMBER: 41426-A-PCT-US/JPW/MS  
36  
37 (ix) TELECOMMUNICATION INFORMATION:  
38 (A) TELEPHONE: (212) 278-0400  
39 (B) TELEFAX: (212) 391-0525  
40  
41  
42  
43 (2) INFORMATION FOR SEQ ID NO:1:  
44  
45 (i) SEQUENCE CHARACTERISTICS:  
46 (A) LENGTH: 2653 base pairs

ENTERED

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/403,803DATE: 12/18/95  
TIME: 15:02:04

INPUT SET: S7876.raw

47 (B) TYPE: nucleic acid  
48 (C) STRANDEDNESS: double  
49 (D) TOPOLOGY: linear  
50  
51 (ii) MOLECULE TYPE: cDNA  
52  
53 (iii) HYPOTHETICAL: NO  
54  
55 (iv) ANTI-SENSE: NO  
56  
57 (vi) ORIGINAL SOURCE:  
58 (A) ORGANISM: Homo sapiens  
59 (F) TISSUE TYPE: Carcinoma  
60  
61 (vii) IMMEDIATE SOURCE:  
62 (B) CLONE: Prostate-Specific Membrane Antigen  
63  
64 (ix) FEATURE:  
65 (A) NAME/KEY: CDS  
66 (B) LOCATION: 262..2511  
67  
68  
69 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
70  
71 CTCAAAAGGG GCCGGATTTC CTTCTCCTGG AGGCAGATGT TGCCTCTCTC TCTCGCTCGG 60  
72  
73 ATTGGTTCAG TGCACTCTAG AAACACTGCT GTGGTGGAGA AACTGGACCC CAGGTCTGGA 120  
74  
75 GCGAATTCCA GCCTGCAGGG CTGATAAGCG AGGCATTAGT GAGATTGAGA GAGACTTTAC 180  
76  
77 CCCGCCGTGG TGGTTGGAGG GCGCGCAGTA GAGCAGCAGC ACAGGCGCGG GTCCCGGGAG 240  
78  
79 GCCGGCTCTG CTCGCGCCGA G ATG TGG AAT CTC CTT CAC GAA ACC GAC TCG 291  
80 Met Trp Asn Leu Leu His Glu Thr Asp Ser  
81 1 5 10  
82  
83 GCT GTG GCC ACC GCG CGC CGC CCG CGC TGG CTG TGC GCT GGG GCG CTG 339  
84 Ala Val Ala Thr Ala Arg Arg Pro Arg Trp Leu Cys Ala Gly Ala Leu  
85 15 20 25  
86  
87 GTG CTG GCG GGT GGC TTC TTT CTC CTC GGC TTC CTC TTC GGG TGG TTT 387  
88 Val Leu Ala Gly Gly Phe Phe Leu Leu Gly Phe Leu Phe Gly Trp Phe  
89 30 35 40  
90  
91 ATA AAA TCC TCC AAT GAA GCT ACT AAC ATT ACT CCA AAG CAT AAT ATG 435  
92 Ile Lys Ser Ser Asn Glu Ala Thr Asn Ile Thr Pro Lys His Asn Met  
93 45 50 55  
94  
95 AAA GCA TTT TTG GAT GAA TTG AAA GCT GAG AAC ATC AAG AAG TTC TTA 483  
96 Lys Ala Phe Leu Asp Glu Leu Lys Ala Glu Asn Ile Lys Lys Phe Leu  
97 60 65 70  
98  
99 TAT AAT TTT ACA CAG ATA CCA CAT TTA GCA GGA ACA GAA CAA AAC TTT 531

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/403,803

DATE: 12/18/95  
TIME: 15:02:07

INPUT SET: S7876.raw

100	Tyr Asn Phe Thr Gln Ile Pro His Leu Ala Gly Thr Glu Gln Asn Phe	
101	75 80 85 90	
102		
103	CAG CTT GCA AAG CAA ATT CAA TCC CAG TGG AAA GAA TTT GGC CTG GAT	579
104	Gln Leu Ala Lys Gln Ile Gln Ser Gln Trp Lys Glu Phe Gly Leu Asp	
105	95 100 105	
106		
107	TCT GTT GAG CTA GCA CAT TAT GAT GTC CTG TTG TCC TAC CCA AAT AAG	627
108	Ser Val Glu Leu Ala His Tyr Asp Val Leu Leu Ser Tyr Pro Asn Lys	
109	110 115 120	
110		
111	ACT CAT CCC AAC TAC ATC TCA ATA ATT AAT GAA GAT GGA AAT GAG ATT	675
112	Thr His Pro Asn Tyr Ile Ser Ile Ile Asn Glu Asp Gly Asn Glu Ile	
113	125 130 135	
114		
115	TTC AAC ACA TCA TTA TTT GAA CCA CCT CCT CCA GGA TAT GAA AAT GTT	723
116	Phe Asn Thr Ser Leu Phe Glu Pro Pro Pro Pro Gly Tyr Glu Asn Val	
117	140 145 150	
118		
119	TCG GAT ATT GTA CCA CCT TTC AGT GCT TTC TCT CCT CAA GGA ATG CCA	771
120	Ser Asp Ile Val Pro Pro Phe Ser Ala Phe Ser Pro Gln Gly Met Pro	
121	155 160 165 170	
122		
123	GAG GGC GAT CTA GTG TAT GTT AAC TAT GCA CGA ACT GAA GAC TTC TTT	819
124	Glu Gly Asp Leu Val Tyr Val Asn Tyr Ala Arg Thr Glu Asp Phe Phe	
125	175 180 185	
126		
127	AAA TTG GAA CGG GAC ATG AAA ATC AAT TGC TCT GGG AAA ATT GTA ATT	867
128	Lys Leu Glu Arg Asp Met Lys Ile Asn Cys Ser Gly Lys Ile Val Ile	
129	190 195 200	
130		
131	GCC AGA TAT GGG AAA GTT TTC AGA GGA AAT AAG GTT AAA AAT GCC CAG	915
132	Ala Arg Tyr Gly Lys Val Phe Arg Gly Asn Lys Val Lys Asn Ala Gln	
133	205 210 215	
134		
135	CTG GCA GGG GCC AAA GGA GTC ATT CTC TAC TCC GAC CCT GCT GAC TAC	963
136	Leu Ala Gly Ala Lys Gly Val Ile Leu Tyr Ser Asp Pro Ala Asp Tyr	
137	220 225 230	
138		
139	TTT GCT CCT GGG GTG AAG TCC TAT CCA GAT GGT TGG AAT CTT CCT GGA	1011
140	Phe Ala Pro Gly Val Lys Ser Tyr Pro Asp Gly Trp Asn Leu Pro Gly	
141	235 240 245 250	
142		
143	GGT GGT GTC CAG CGT GGA AAT ATC CTA AAT CTG AAT GGT GCA GGA GAC	1059
144	Gly Gly Val Gln Arg Gly Asn Ile Leu Asn Leu Asn Gly Ala Gly Asp	
145	255 260 265	
146		
147	CCT CTC ACA CCA GGT TAC CCA GCA AAT GAA TAT GCT TAT AGG CGT GGA	1107
148	Pro Leu Thr Pro Gly Tyr Pro Ala Asn Glu Tyr Ala Tyr Arg Arg Gly	
149	270 275 280	
150		
151	ATT GCA GAG GCT GTT GGT CTT CCA AGT ATT CCT GTT CAT CCA ATT GGA	1155
152	Ile Ala Glu Ala Val Gly Leu Pro Ser Ile Pro Val His Pro Ile Gly	

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/403,803

DATE: 12/18/95  
TIME: 15:02:09

INPUT SET: S7876.raw

	285	290	295	
153				
154				
155	TAC TAT GAT GCA CAG AAG CTC CTA GAA AAA ATG GGT GGC TCA GCA CCA			1203
156	Tyr Tyr Asp Ala Gln Lys Leu Leu Glu Lys Met Gly Gly Ser Ala Pro			
157	300	305	310	
158				
159	CCA GAT AGC AGC TGG AGA GGA AGT CTC AAA GTG CCC TAC AAT GTT GGA			1251
160	Pro Asp Ser Ser Trp Arg Gly Ser Leu Lys Val Pro Tyr Asn Val Gly			
161	315	320	325	330
162				
163	CCT GGC TTT ACT GGA AAC TTT TCT ACA CAA AAA GTC AAG ATG CAC ATC			1299
164	Pro Gly Phe Thr Gly Asn Phe Ser Thr Gln Lys Val Lys Met His Ile			
165	335	340	345	
166				
167	CAC TCT ACC AAT GAA GTG ACA AGA ATT TAC AAT GTG ATA GGT ACT CTC			1347
168	His Ser Thr Asn Glu Val Thr Arg Ile Tyr Asn Val Ile Gly Thr Leu			
169	350	355	360	
170				
171	AGA GGA GCA GTG GAA CCA GAC AGA TAT GTC ATT CTG GGA GGT CAC CGG			1395
172	Arg Gly Ala Val Glu Pro Asp Arg Tyr Val Ile Leu Gly Gly His Arg			
173	365	370	375	
174				
175	GAC TCA TGG GTG TTT GGT GGT ATT GAC CCT CAG AGT GGA GCA GCT GTT			1443
176	Asp Ser Trp Val Phe Gly Gly Ile Asp Pro Gln Ser Gly Ala Ala Val			
177	380	385	390	
178				
179	GTT CAT GAA ATT GTG AGG AGC TTT GGA ACA CTG AAA AAG GAA GGG TGG			1491
180	Val His Glu Ile Val Arg Ser Phe Gly Thr Leu Lys Lys Glu Gly Trp			
181	395	400	405	410
182				
183	AGA CCT AGA AGA ACA ATT TTG TTT GCA AGC TGG GAT GCA GAA GAA TTT			1539
184	Arg Pro Arg Arg Thr Ile Leu Phe Ala Ser Trp Asp Ala Glu Glu Phe			
185	415	420	425	
186				
187	GGT CTT CTT GGT TCT ACT GAG TGG GCA GAG GAG AAT TCA AGA CTC CTT			1587
188	Gly Leu Leu Gly Ser Thr Glu Trp Ala Glu Glu Asn Ser Arg Leu Leu			
189	430	435	440	
190				
191	CAA GAG CGT GGC GTG GCT TAT ATT AAT GCT GAC TCA TCT ATA GAA GGA			1635
192	Gln Glu Arg Gly Val Ala Tyr Ile Asn Ala Asp Ser Ser Ile Glu Gly			
193	445	450	455	
194				
195	AAC TAC ACT CTG AGA GTT GAT TGT ACA CCG CTG ATG TAC AGC TTG GTA			1683
196	Asn Tyr Thr Leu Arg Val Asp Cys Thr Pro Leu Met Tyr Ser Leu Val			
197	460	465	470	
198				
199	CAC AAC CTA ACA AAA GAG CTG AAA AGC CCT GAT GAA GGC TTT GAA GGC			1731
200	His Asn Leu Thr Lys Glu Leu Lys Ser Pro Asp Glu Gly Phe Glu Gly			
201	475	480	485	490
202				
203	AAA TCT CTT TAT GAA AGT TGG ACT AAA AAA AGT CCT TCC CCA GAG TTC			1779
204	Lys Ser Leu Tyr Glu Ser Trp Thr Lys Lys Ser Pro Ser Pro Glu Phe			
205	495	500	505	

**INPUT SET: S7876.raw**

206																		
207	AGT	GGC	ATG	CCC	AGG	ATA	AGC	AAA	TTG	GGA	TCT	GGA	AAT	GAT	TTT	GAG		1827
208	Ser	Gly	Met	Pro	Arg	Ile	Ser	Lys	Leu	Gly	Ser	Gly	Asn	Asp	Phe	Glu		
209				510					515					520				
210																		
211	GTG	TTC	TTC	CAA	CGA	CTT	GGA	ATT	GCT	TCA	GGC	AGA	GCA	CGG	TAT	ACT		1875
212	Val	Phe	Phe	Gln	Arg	Leu	Gly	Ile	Ala	Ser	Gly	Arg	Ala	Arg	Tyr	Thr		
213				525				530					535					
214																		
215	AAA	AAT	TGG	GAA	ACA	AAC	AAA	TTC	AGC	GGC	TAT	CCA	CTG	TAT	CAC	AGT		1923
216	Lys	Asn	Trp	Glu	Thr	Asn	Lys	Phe	Ser	Gly	Tyr	Pro	Leu	Tyr	His	Ser		
217			540				545					550						
218																		
219	GTC	TAT	GAA	ACA	TAT	GAG	TTG	GTG	GAA	AAG	TTT	TAT	GAT	CCA	ATG	TTT		1971
220	Val	Tyr	Glu	Thr	Tyr	Glu	Leu	Val	Glu	Lys	Phe	Tyr	Asp	Pro	Met	Phe		
221						560					565					570		
222																		
223	AAA	TAT	CAC	CTC	ACT	GTG	GCC	CAG	GTT	CGA	GGA	GGG	ATG	GTG	TTT	GAG		2019
224	Lys	Tyr	His	Leu	Thr	Val	Ala	Gln	Val	Arg	Gly	Gly	Met	Val	Phe	Glu		
225					575					580						585		
226																		
227	CTA	GCC	AAT	TCC	ATA	GTG	CTC	CCT	TTT	GAT	TGT	CGA	GAT	TAT	GCT	GTA		2067
228	Leu	Ala	Asn	Ser	Ile	Val	Leu	Pro	Phe	Asp	Cys	Arg	Asp	Tyr	Ala	Val		
229				590					595					600				
230																		
231	GTT	TTA	AGA	AAG	TAT	GCT	GAC	AAA	ATC	TAC	AGT	ATT	TCT	ATG	AAA	CAT		2115
232	Val	Leu	Arg	Lys	Tyr	Ala	Asp	Lys	Ile	Tyr	Ser	Ile	Ser	Met	Lys	His		
233			605					610					615					
234																		
235	CCA	CAG	GAA	ATG	AAG	ACA	TAC	AGT	GTA	TCA	TTT	GAT	TCA	CTT	TTT	TCT		2163
236	Pro	Gln	Glu	Met	Lys	Thr	Tyr	Ser	Val	Ser	Phe	Asp	Ser	Leu	Phe	Ser		
237			620				625					630						
238																		
239	GCA	GTA	AAG	AAT	TTT	ACA	GAA	ATT	GCT	TCC	AAG	TTC	AGT	GAG	AGA	CTC		2211
240	Ala	Val	Lys	Asn	Phe	Thr	Glu	Ile	Ala	Ser	Lys	Phe	Ser	Glu	Arg	Leu		
241						640					645					650		
242																		
243	CAG	GAC	TTT	GAC	AAA	AGC	AAC	CCA	ATA	GTA	TTA	AGA	ATG	ATG	AAT	GAT		2259
244	Gln	Asp	Phe	Asp	Lys	Ser	Asn											